F I G. I

FIRST SET TIME INTERVAL

SECOND SET TIME INTERVAL

a(M-2,5)

a(M-1,4)

a(M,5)

MVadj = -0.5

MOTION VECTOR OF REFERENCE IMAGE

a(M-2,3)

a(M,3)

POSITION OF (M-2,2.5)-2

a(M-1,2)

POSITION OF (M-2,2)—3

MOTION VECTOR OF INPUT IMAGE

$\frac{1}{3}$

MV = 1

a(M,1)

a(M-2,1)

VERTICAL DIRECTION

THE (M-2)-TH FIELD

THE (M-1)-TH FIELD

THE M-TH FIELD

TIME

F I G. 2A

REFERENCE IMAGE

FRAME

FRAME

INPUT IMAGE

MOTION VECTOR OF REFERENCE IMAGE

POSITION OF (M-2,2.75)

a(M-2,3)

a(M,3)

PREDICTION OF THE FIRST FIELD

POSITION OF (M-2,2.5)

a(M-1,2)

MOTION VECTOR OF INPUT IMAGE

BLOCK UNIT

a(M-2,1)

MV(M) = 1.5

a(M,1)

VERTICAL DIRECTION

FIRST SAMPLING TIME

THE (M-2)-TH FIELD

THE M-TH FIELD

TIME

SECOND SAMPLING TIME

THE (M-1)-TH FIELD

THE (M+1)-TH FIELD

F I G. 2B

FRAME

FRAME

a(M-1,4)

$\frac{2}{3}$ $\frac{1}{3}$

a(M-2,3)

POSITION OF (M-1,2.5)

PREDICTION OF THE SECOND FIELD

a(M+1.2)

a(M-2,1)

a(M-1,2)

MV(M+1) = 1

VERTICAL DIRECTION

THE (M-2)-TH FIELD

THE M-TH FIELD

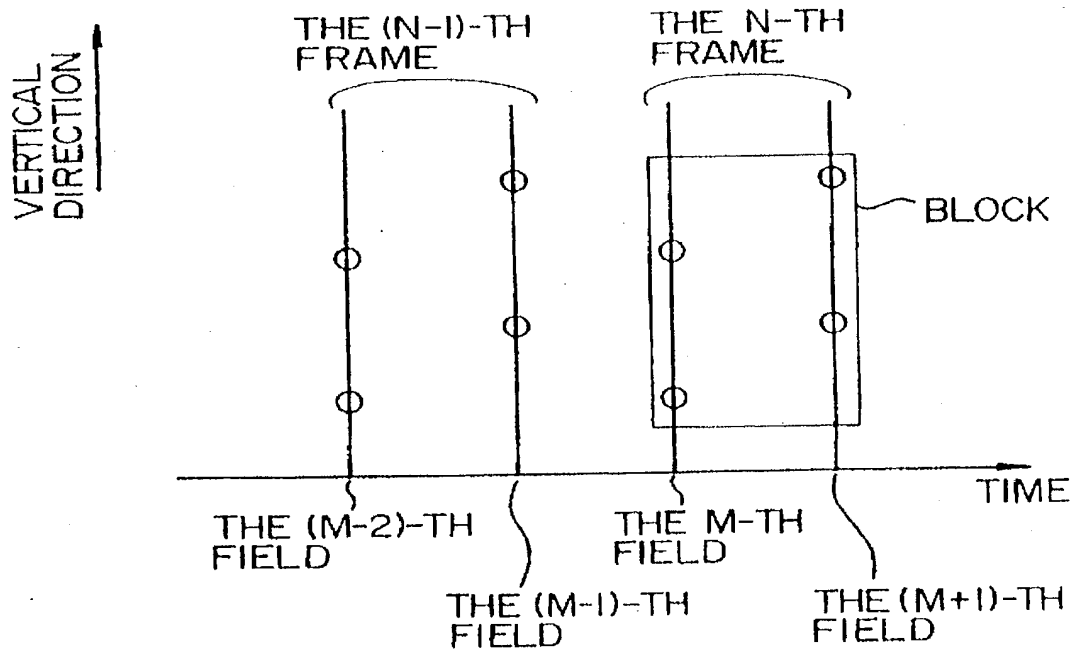THE (M-1)-TH FIELD

THE (M+1)-TH FIELD

TIME

F I G. 3

FIG. 4A

FIG. 4B

FIG. 5

F I G. 6   PRIOR ART

F I G. 7A PRIOR ART

THE (M-1)-TH FRAME   THE M-TH FRAME   FRAME

VERTICAL DIRECTION

O PIXEL OF THE FIRST FIELD

● PIXEL OF THE SECOND FIELD

TIME

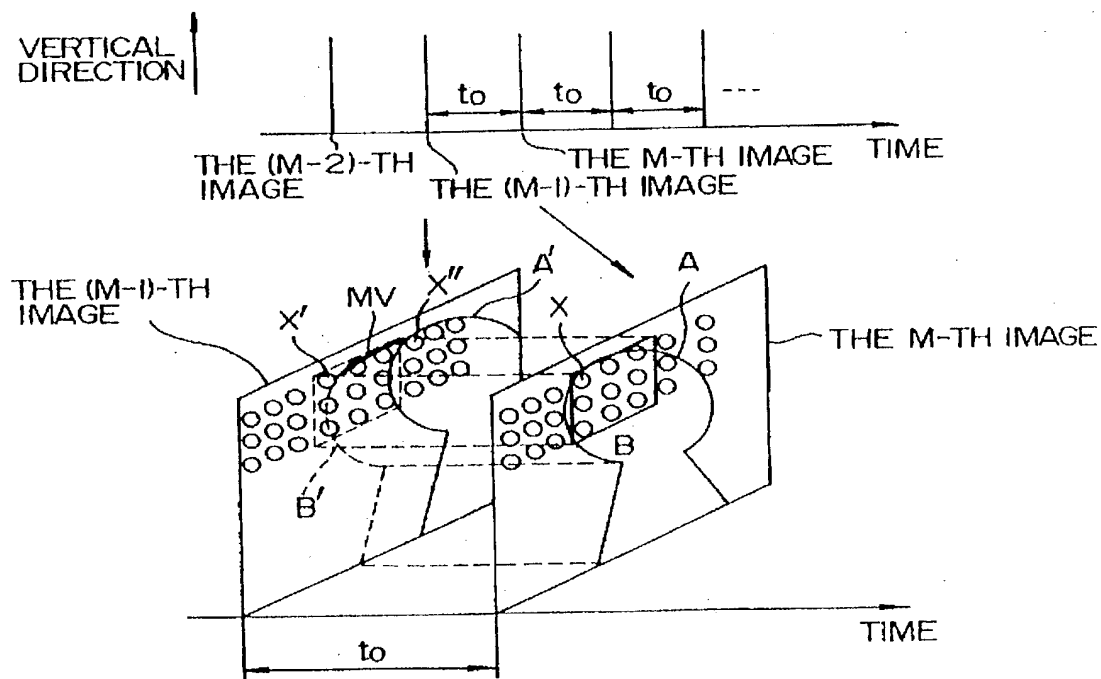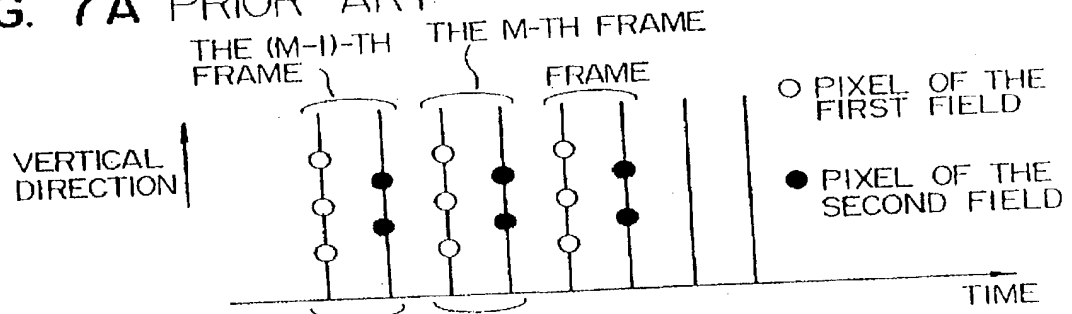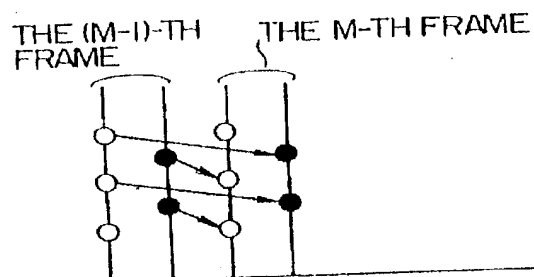## FIG. 7B

TIME

MOTION COMPENSATION WHEN AN INTERLACE SIGNAL IS HANDLED AS A FRAME (WHEN THE VERTICAL COMPONENT OF THE MOVE VECTOR IS -1)

FIG. 7C

THE (M-1)-TH FRAME   THE M-TH FRAME

TIME

MOTION COMPENSATION WHEN FIG. 7B IS CONSIDERED AT A CORRECT SAMPLING POSITION (WHEN THE VERTICAL COMPONENT OF THE MOTION VECTOR IS -1)

FIG. 8 PRIOR ART

O   PIXEL OF FIELD

●   INTERPOLATED PIXEL

MOTION VECTOR
—O

THE (M-1)-TH FIELD   THE M-TH FIELD